

Loop Method:

```
Loop
MRD [addr],[reg]
DBcc Loop
```

Fig. 1A
PRIOR ART

Unrolled Method:

```
MRD [addr],[reg]
MRD [addr],[reg]
MRD [addr],[reg]
```

Fig. 1B
PRIOR ART

```
Load Count
REPEAT
MRD [addr],[reg]
```

Fig. 2

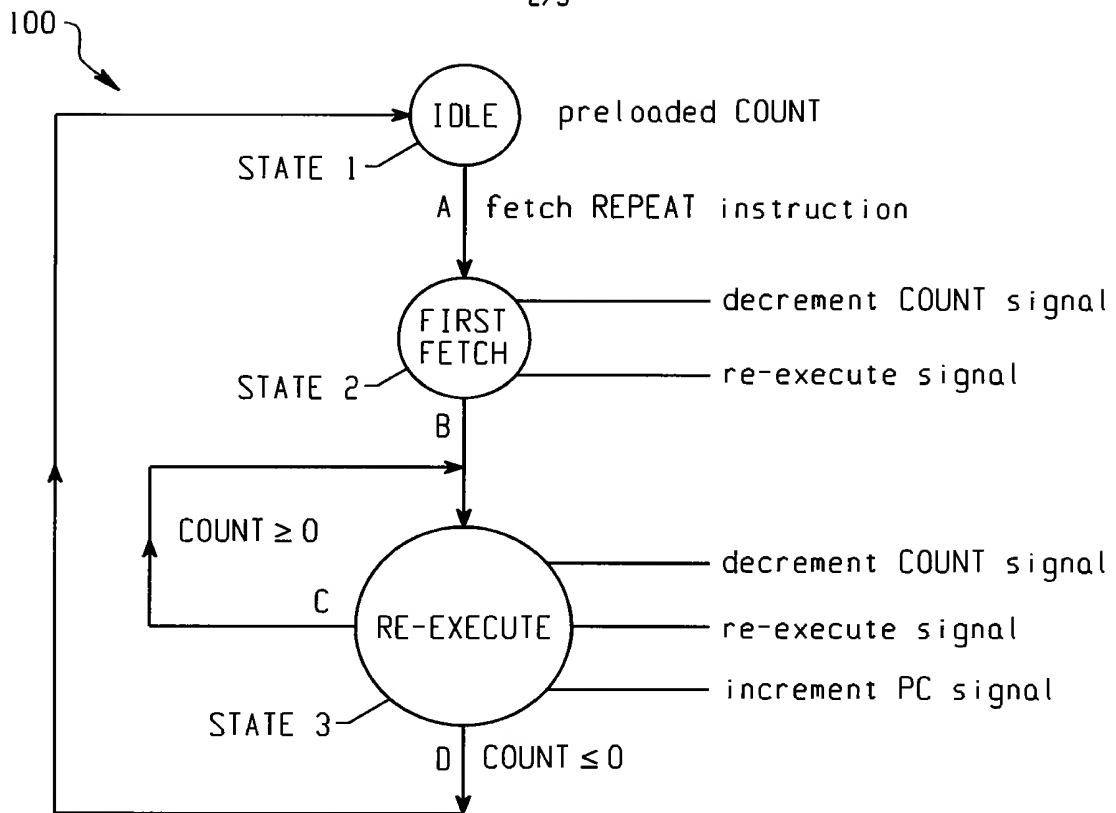


Fig. 3

<u>PROGRAM COUNTER (PC)</u>	<u>TRANSITION</u>	<u>OPERATION</u>
x10	A	fetch REPEAT instruction
x11	B	fetch instruction to be repeated (INST _R)
x11	C	execute INST _R
x11	C	execute INST _R
x11	C	execute INST _R
x11	C	execute INST _R
x11	C	execute INST _R
x12	D	fetch next instruction

Fig. 4

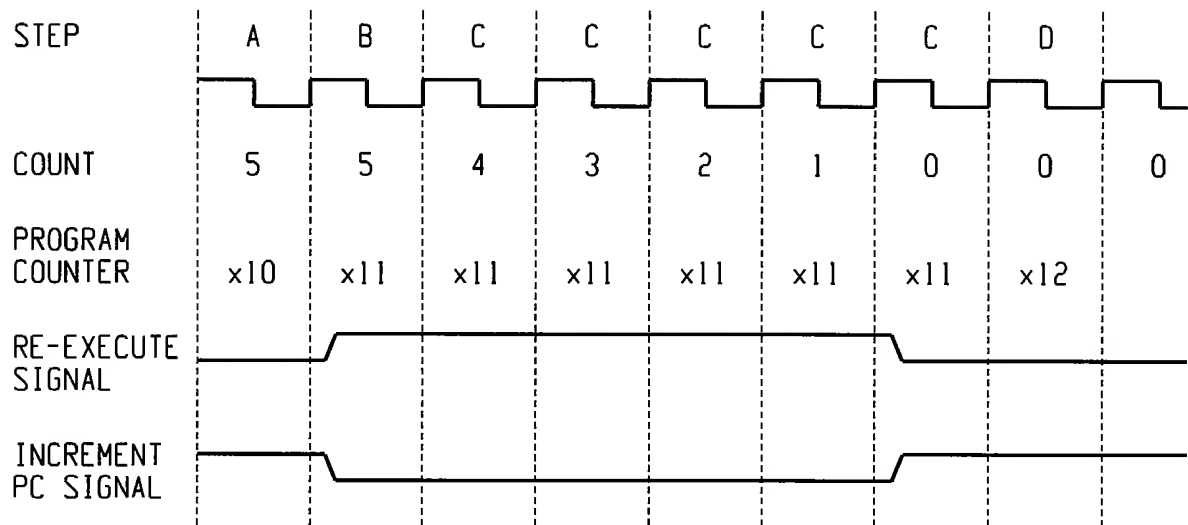


Fig. 5

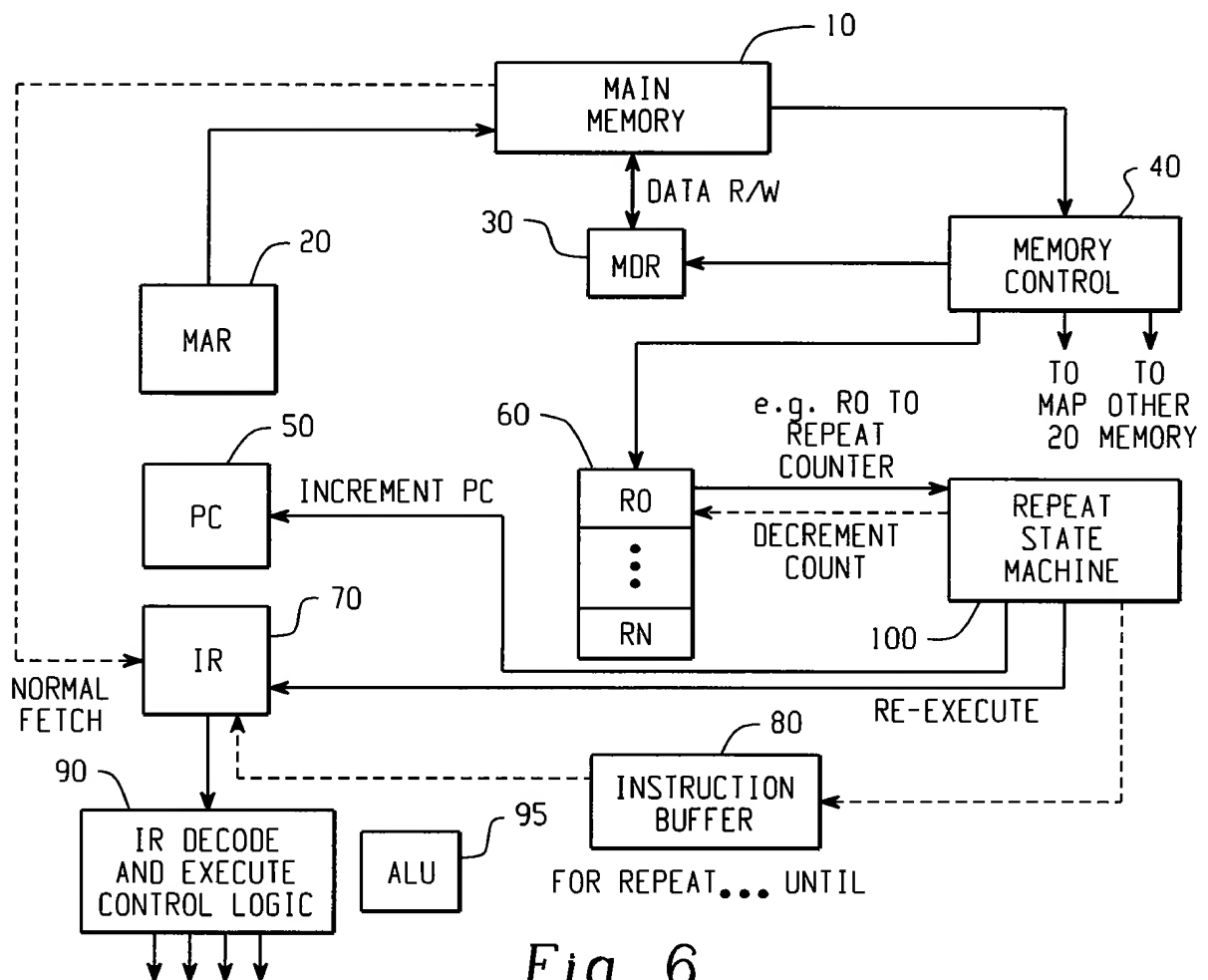


Fig. 6